RJ-10 EOS
Application Note

Ver 0.01

Document #: RJ10

REVISION HISTORY

VERSION :**Ver 0.01**

DATE ; 2011-01-6

Descriptipon

- ORIGINAL

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1. EXPOSURE

TheEXPOSURE menus SHUTTER/IRIS controls, BLC, HLI, D-WDR, AGC and 3D DNR, will set SENSE-UP etc. and it will be able to change a condition.

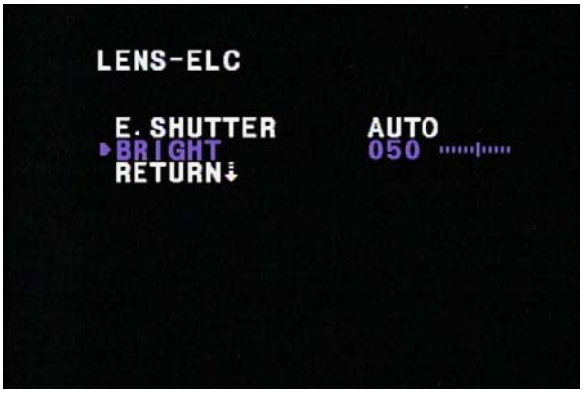
1/60

EXPOSURE –LENS

- Selection of LENS modes.
- The ELC means fixed LENS mode.
- The ELC modes with electronic shutter AE controls.
- When use DC-IRIS lens, DC-IRIS full open conditions.
- DC modes use DC-IRIS lenses and they control AE. This time, Electronic shutter default shutter speed

EXPOSURE – LENS – ELC–E.SHTTER

- E.SHUTTER –setting value of electronic shutter
- Select mode :Auto,1/60(1/50), 1/100, 1/120FLK, 1/250, 1/500,1/1000, 1/2000, 1/4000, 1/10000, 1/100000 sec. (default : AUTO)
- When selecting in Auto mode (default) :The shutter mode from 1/60 to 1/100000 is controlled with automatic.



EXPOSURE – LENS – ELC - BRIGHT

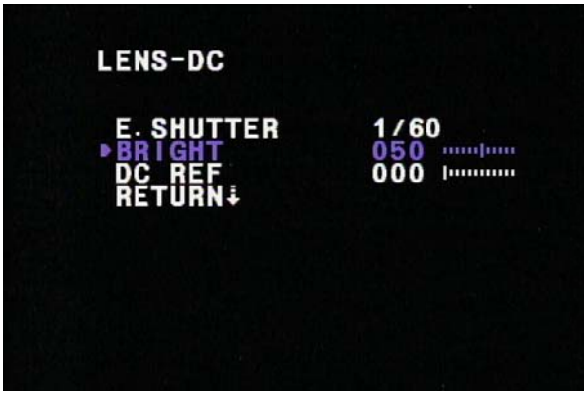
- BRIGHT : For target brightness control
- AE controls this in compliance with a set bright control. Bright control from 1 to 100, the defult is 50.

EXPOSURE – LENS –DC

- DC modes use DC-IRIS lenses and they control AE. Then,electronic shutter speed default 1/60.

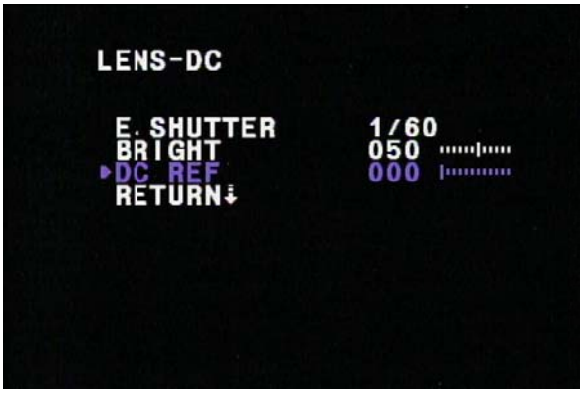
EXPOSURE – LENS – DC –E.SHUTTER

- LENS – DC mode setting.
- E.SHUTTER :Electronic shutter value setting mode in DC IRIS
- 1/60(1/50), 1/100, 1/120FLK, 1/250, 1/500,1/1000, 1/2000, 1/4000, 1/10000, 1/100000 sec. (default : 1/50 (1/60))



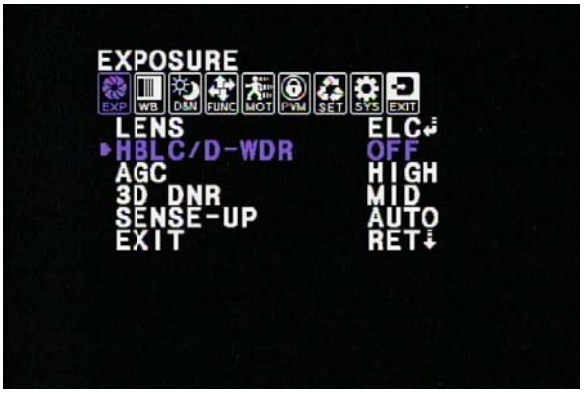
EXPOSURE – LENS – DC - BRIGTNESS

- BRIGHT : Setting for target brightness.
- Controls DC IRIS at the bright value which is set. Bright control from 1 to 100, the defult is 50.



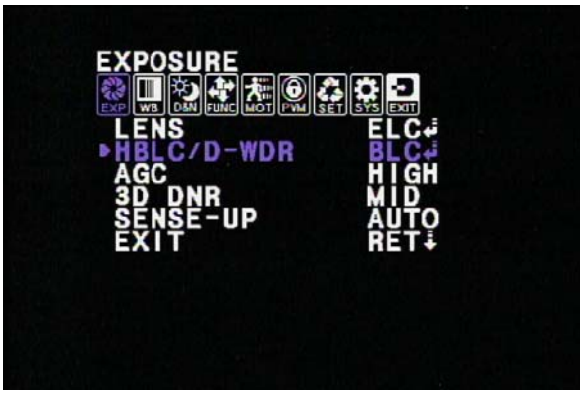
EXPOSURE – LENS –DC REF

- Completing setting from DC, after lens modes, more will open the lens or there is a possibility of closing
- Control value from 0 to 20, the defult is 10.



EXPOSURE –HBLC/D-WDR

- Select menu for BLC / HLI / D-WDR
- BLC mode : Back Light Conpensation
- HLImode :High Light Inverse
- D-WDRmode :Digiter Wide Dynamic Range



EXPOSURE - HBLC/D-WDR –BLC

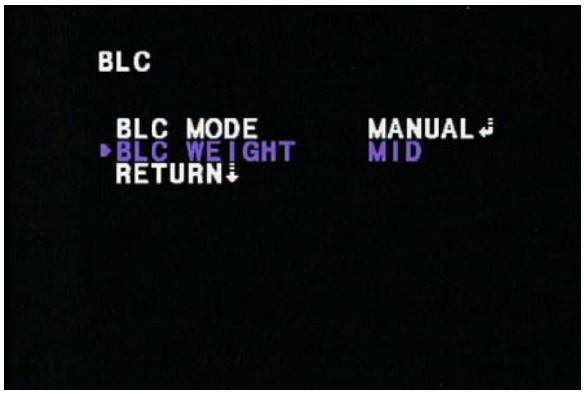
- Selected BLE mode

EXPOSURE - HBLC/D-WDR – BLC –BLC MODE

- Select AUTO or MANUAL
- Sets the total AE level at AE value of select window area.
- AUTO, the case which modes will select seeks the darkest area with automatic and photometry weight, AE controls does.

EXPOSURE - HBLC/D-WDR – BLC – BLC MODE - MANUAL

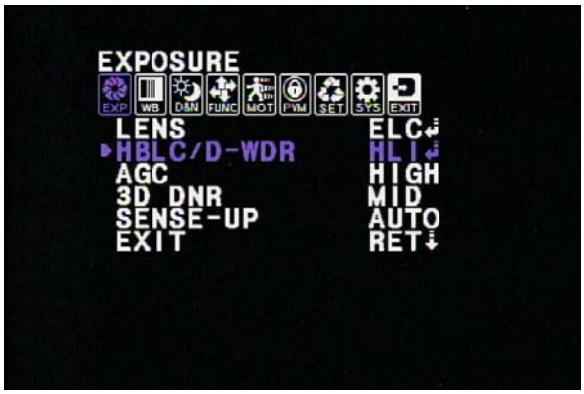
- BLC window setting at manual mode
- TOP / BOTTOM / LEFT / RIGHT zone setting.
- TOP : 0 ~ (BOTTOM – 1), 1 step.
- BOTTOM : (TOP + 1) ~ 16, 1 step.
- LEFT : 0 ~ (RIGHT - 1), 1 step.
- RIGHT : (LEFT + 1) ~ 16, 1 step.



EXPOSURE - HBLC/D-WDR – BLC –BLC WEIGHT

- BLC weight select mode .
- Select OFF / LOW / MID / HIGH

.

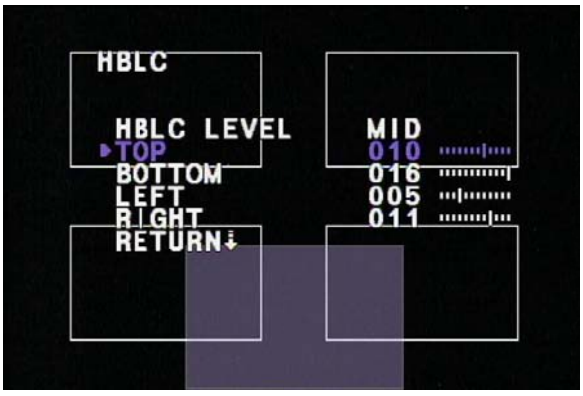


EXPOSURE - HBLC/D-WDR –HLI

- HLImode :High Light Inverse
- It is a function which reverses the area about strong light.
- The HLI BLC mode control by BLC window area. (HBLC)

EXPOSURE - HBLC/D-WDR –HLI – HBLC

- Sets HBLC area of separate way from HLI mode



EXPOSURE - HBLC/D-WDR –HLI – HBLC

- HBLC LEVEL : OFF/LOW/MID/HIGH
- HBLC zone sets regulate HBLC zone with square window of the screen.
- TOP / BOTTOM / LEFT / RIGHT control mode

  TOP : 0 ~ (BOTTOM – 1), 1 step.

  BOTTOM : (TOP + 1) ~ 16, 1 step.

  LEFT : 0 ~(RIGHT – 1), 1 step.

  RIGHT : (LEFT + 1) ~ 16, 1 step.

EXPOSURE - HBLC/D-WDR –HLI – MODE

- Use mode set of HLI (ALL DAY / NIGHT).
- ALL DAY :Always operating HLI
- NIGHT :Only NIGHT environment operating.

  But if DAY condition, not operating HLI

EXPOSURE - HBLC/D-WDR – HLI –SET LEVEL

- Setting of HLI level (1 ~ 100, 1 step, default : 10)

  Inverse zone will increasein low level

EXPOSURE - HBLC/D-WDR – HLI –GRAY MODE.

- When HLI is operatethe zone color sets.

  Selection of GRAY / D.GRAY / BLACK

EXPOSURE - HBLC/D-WDR – HLI –MASK SEL

- Window has 4 zones :MASK1 ~ 4

  User sets each mask window.

EXPOSURE - HBLC/D-WDR – HLI –MASK SEL – MASK i

- MODE :Window operats by ON/OFF.
- TOP / BOTTOM / LEFT / RIGHT
- The white rectangleexists in only the window set mode.
- TOP : 0 ~ (BOTTOM – 1), 1 step.
- BOTTOM : (TOP + 1) ~ 34, 1 step.
- LEFT : 0 ~ (RIGHT – 1), 1 step.
- RIGHT : (LEFT + 1) ~ 45, 1 step.

EXPOSURE –AGC

- AGC :Auto Gain Control level set

  OFF / LOW / MIDDLE / HIGH.

EXPOSURE –3D DNR

- 3 Dimension Digital Noise Reduction
- Level sets for 3D DNR.
- OFF / LOW / MID / HIGH

  The noise level reduces in high level but ghost image increasemore.

EXPOSURE –SENSE-UP

- When it is low dark condition, SENSE-UP uses
- AUTO / OFF / X2 / X4 / X8 / X16 / X32 / X64 / X128 / X256 / X512
- AUTO mode basically sets X8 by manufacture.
- In case of SENSE-UP operating, the 3D-DNR is operated LOW level.

2. COLOR

The white balance mode and color gainsetting menu.

COLOR –WB MODE

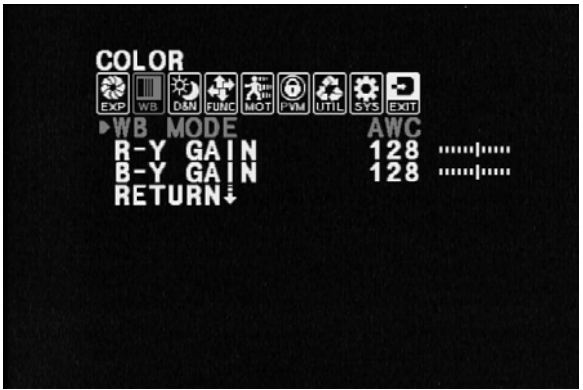
- White Balance control mode selects ATW / MANUAL / AWC>PUSH / AWC
- Selection of COLOR – WB MODE - ATW
- ATW :Auto Tracking White Balance mode

COLOR – WB MODE –MANUAL

- User can change color
- M. WB R :If it is higher than default (64), the white point moves toward RED. And it is lower than it moves toward GREEN.
- Control range : 0 ~ 128, 1 step, default : 64
- M. WB B :If it is higher than default (64), the white point moves toward BLUE. And it is lower than it moves toward YELLOW.
- Control range : 0 ~ 128, 1 step, default : 64

COLOR – WB MODE –AWC>PUSH

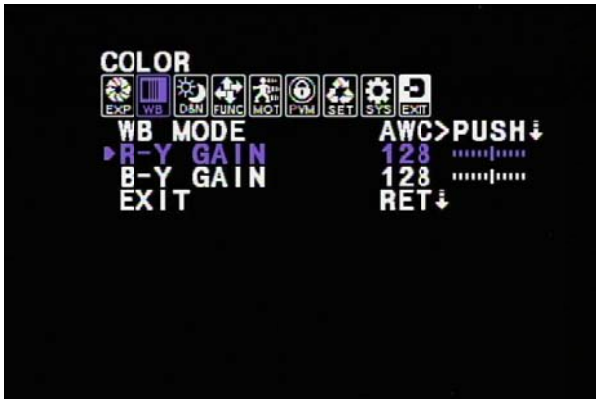
- When pushing ENTER, the white balance operate automatically in fixed color temperature area.



COLOR – WB MODE –AWC

- AWC :Auto White Balance Control mode

Auto White Balance controls in all color temperature ranges.



COLOR –R-Y GAIN

- The color gain controls R-Y
- If it increases more than default (128) value,R-Y gain extends to vertical shaft in color vector. And if it decrease, it shortens (0 ~ 256, 1 step, default : 128)

COLOR –B-Y GAIN

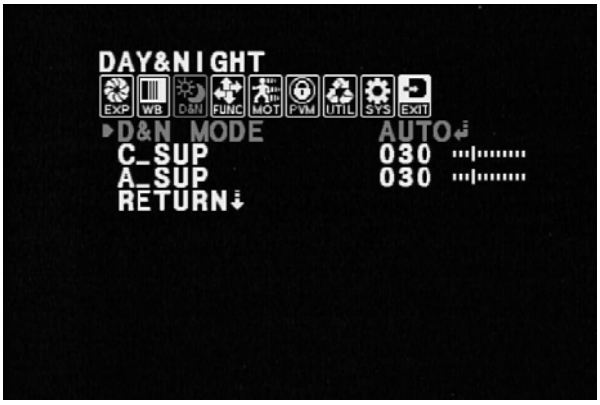
- The color gain controls B-Y
- If it increases more than default (128) value, B-Y gain extends to horizontal shaft in color vector. And if it decrease, it shortens (0 ~ 256, 1 step, default : 128)

3. DAY&NIGHT

- Color & B/W change, D&N filter change, Color/Aperture level control.

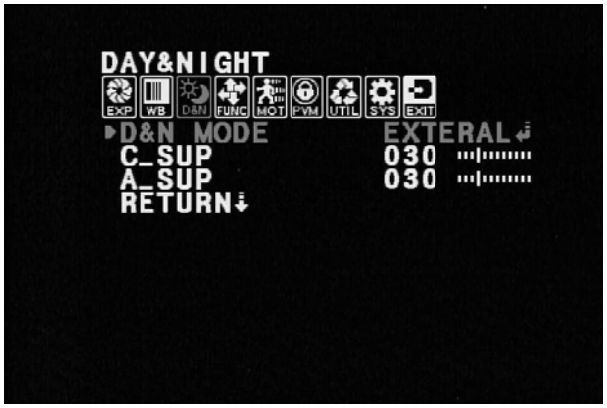
DAY&NIGHT –D&N MODE

- D&N change mode sets
- Select of AUTO / COLOR / B&W / EXT.
- AUTO mode: D&N is decided by AGC gain level.
- COLOR mode: Only Color mode operates.
- B&W mode: Only B&W mode operates.
- EXT mode: D&N decision by external CDS signal.



DAY&NIGHT – D&N - AUTO

- D&N is decided by AGC gain level.
- BURST: When it is Night mode, color burst ON/OFF controls.
- DAY>NIGHT: It controls gain level for changing Night mode((DAY>NIGHT + 1) ~ 30, 1 step) unitdB.
- NIGHT>DAY :It controls gain level for changing DAY mode. (6 ~ (NIGHT>DAY – 1), 1 step) unitdB.
- DWELL TIME: D&N change on continual time condition set DAY>NIGHT or NIGHT>DAY.For protecting hunting.(0 ~ 15, 1 step) unit : sec



DAY&NIGHT – D&N –EXT.

- EXT mode: D&N decision by external CDS signal.
- BURST :When it is Night mode,color burst signal selects ON/OFF.
- DAY>NIGHT: ADC level for changing Night mode. (0 ~ 255, 1 step)
- NIGHT>DAY : ADC level for changing Day mode. (0 ~ 255, 1 step)
- SMART IR : SMART IR changing ON/OFF mode

DAY&NIGHT –C_SUP

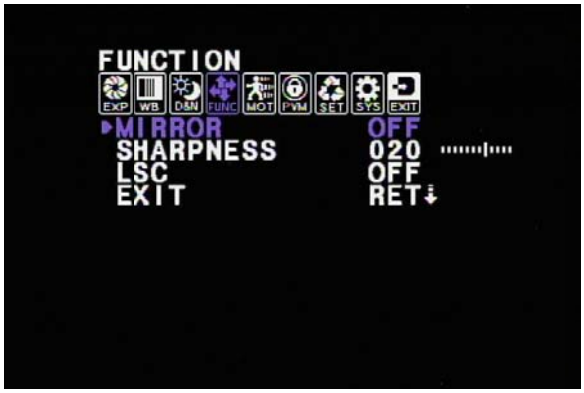
- The color noise suppress in Night mode.
- 0 ~100, 1 step. Unit %.

DAY&NIGHT –A_SUP

- The Aperture level suppres in Night mode.
- 0 ~100, 1 step. Unit %.

4. FUNCTIPON

- Sets for MIRROR, Sharpness, LSC mode



FUNCTION

- MIRROR : Image change mirror ON/OFF mode
- SHAPRNESS: Sharpness level control(0 ~ 30, 1 step)
- LSC: Lens Shading Conpensation ON/OFF mode

FUNCTION –LSC

- LSC(Lens Shading Conpensation)
- In order to complement the quality of the lens is a function which increases gain of screen angle.
- LSC operates ON/OFF
- 0 ~ 30, 1 step.
- In increasing level, side image is bright.

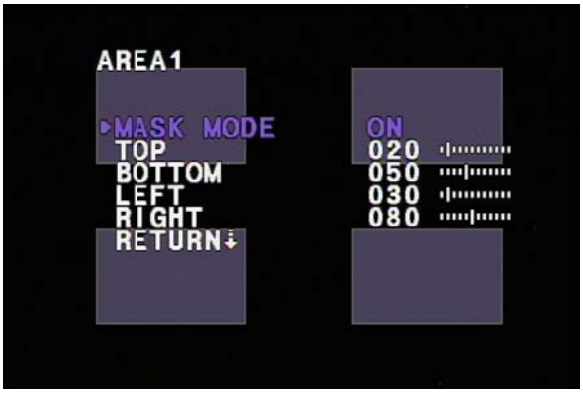
5. MOTION

- The functioninforms alarm on camera when being moving by the screen. The setting zones are 4 area.
  - MOTION :Select operates ON/OFF
  - AREA SEL : Select each area
  - SENSITI. : Control MOTION sensitivity. (0 ~ 30, 1 step)
  - DISPLAY: Control alarm mode when MOTION indicates. (Select of OFF / ICON / TRACE)

i) ICON mode: MOTION ICON display when MOTION indicates.

ii) TRACE mode: Display selected window in AREA

- HOLD TIME: The time of alarm control when MOTIONindicat. (0 ~ 15, 1 step) Unit : sec



MOTION – AREA SEL –AREA i

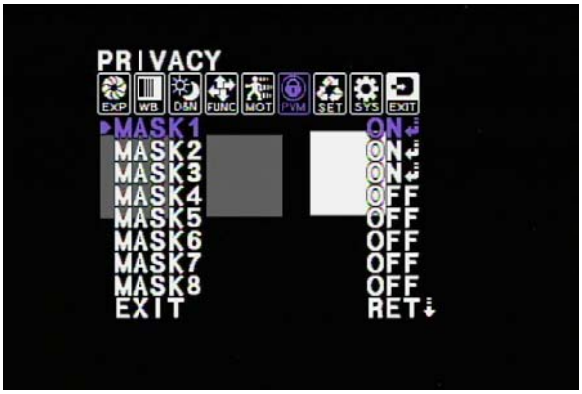
- MASK MODE: Selected area operates MASK area.
- TOP / BOTTOM / LEFT / RIGHT
- TOP : 0 ~ (BOTTOM - 1), 1 step.
- BOTTOM : (TOP + 1) ~ 145, 1 step.
- LEFT : 0 ~ (RIGHT – 1), 1 step.
- RIGHT : (LEFT + 1) ~ 192, 1 step.
-

6. PRIVACY

- The mask controls about the zone where the privacy is necessary.

  The total mask is 8 zones.

  The each mask color can control GRAY, BLACK, WHITE, RED, GREEN, BLUE, MAGENTA, CYAN.



PRIVACY –MASK1 ~ MASK 8

- The each mask selects ON/OFF

PRIVACY –MASKi

- After selecting each mask, it can select color, location, area of mask.
- DOT SEL :The each mask can change area.
  (L_TOP / L_BOT / R_BOT / R_TOP)
- DOT XY :The selected point in mask controls size.
- MOVE XY :The selected mask can move.
- COLOR SET :The selected mask can change color.

(GRAY/BLACK/WHITE/RED/GREEN/BLUE/MAGENTA/CYAN)

7. SETUP

- The SETUP mode set USER TITLE,DPC(Dead Pixel Conpensation), OLPF, MONITOR MODE.

SETUP –TITLE

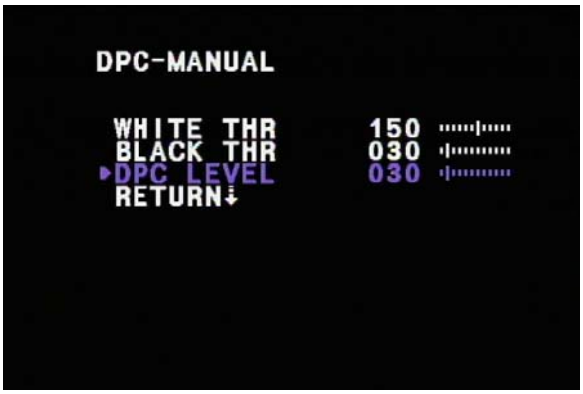
- User writes TITLE
- User sets TITLE ON/OFF.
- After selecting TITLE ON, it can write TEXT to diplay on screen.

USER TITLE –Text setting mode.

- User can write text 64 charaters.
- ← , → :When it modify, user can move revision text..
- CLR: User can remove all text.
- POS: The text move to the position.
- RET :After finishing USER TITLE to the upper menu.

SETUP –DPC (Dead Pixel Conpensation)

- It is the function to compensate for CCD defect.
- User can select OFF / MANUAL.



SETUP – DPC –MANUAL

- After selecting MANUAL mode, menu move to the DPC control mode
- WHITE THR : White defect threshold. (0 ~ 255, 1 step)
- BLACK THR : Black defect threshold. (0 ~ 255, 1 step)
- DPC LEVEL: Control the DPC compensation level (0 ~ 255, 1 step)

SETUP –OLPF

- User can control ATW value according to kind of OLPF
- It supports two kinds of OLPF. (650 filter (IR-CUT), 850 filter(IR-PASS))

SETUP –MONITOR

- The DISPLAY MONITOR mode can support two kinds of display(CRT/LCD)

SETUP –GAMMA

- User can adjust GAMMA level.
- Selecting of 0.45 / 0.60 / 1.0 / USER.
- After selecting USER mode, the gamma value adjust 0.20 ~ 1.00. (0.05 step)

- The setting Camera ID, 485 comm., language.

SYSTEM –CAMERAID

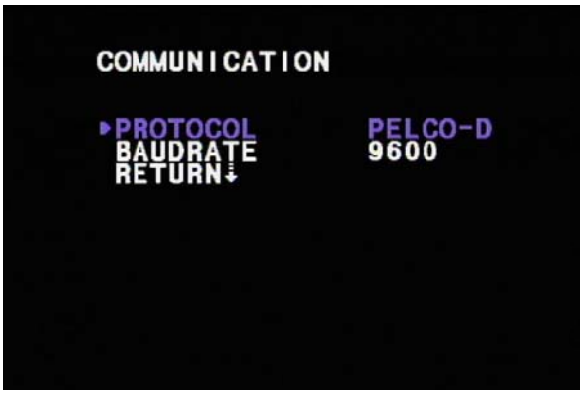
- When user set a couple of camera, it can set camera ID of each camera. 0 ~ 255

SYSTEM –COMMUNI. (communication setting)

- User can set RS485 comm. ON /OFF.

SYSTEM –LANGUAGE

- User can set language of OSD menu.



SYSTEM –COMMUNICATIONsub menu.

- Setting RS485 communication.
- PROTOCOL: Supporting for PELCO-D.
- BAUDRATE: 2400 / 4800 / 9600 / 19200. Unit : bps

9. EXIT

- You can choice each option for the EXIT after config the camera setting.

EXIT –FACTORY SET.

- Factory initial data mode set.
- Camera setting data factory original data.
- After factory set mode, user has to enter SAVE&EXIT.

EXIT –SAVE&EXIT.

- After adjusted data, exit OSD menu.

EXIT –EXIT

- Exit not saving changed data.